Appl. No. 10/627,212 Amdt. dated April 18, 2005 Reply to Office action of April 5, 2005

1. (Currently Amended) A fuel booster operable to compress a combustible fuel, the fuel booster comprising:

a compressor housing;

a compressor rotor;

a seal assembly coupled to the compressor housing, the seal assembly and the compressor housing cooperating to at least partially define a hermetically sealed compressor chamber;

a motor housing coupled to the seal assembly, the motor housing and the seal assembly cooperating to at least partially define a motor chamber that is sealed from the compressor chamber to prevent fluid flow therebetween; and

a motor including a motor rotor and a motor stator, the motor rotor and the compressor rotor contained within the compressor chamber, the motor rotor including a cylindrical surface, the motor stator substantially surrounding the cylindrical surface and contained within the motor chamber;

wherein the compressor rotor is a first compressor rotor, the fuel booster further

comprising a second compressor rotor engaged with the first compressor rotor, the first

compressor rotor and the second compressor rotor contained within the compressor chamber.

- 2. (Original) The fuel booster of claim 1, wherein the compressor housing includes a fuel inlet aperture and a fuel outlet aperture.
 - 3. (Cancelled).
- 4. (Original) The fuel booster of claim 1, wherein the compressor rotor includes a drive portion that extends into the motor stator, and wherein the motor rotor includes an annular sleeve connected to the drive portion.

- 5. (Original) The fuel booster of claim 1, wherein the seal assembly includes a canister sized to cover the motor rotor and contact the compressor housing.
- 6. (Original) The fuel booster of claim 5, wherein the seal assembly includes an Oring positioned between the canister and the compressor housing.
- 7. (Original) The fuel booster of claim 6, wherein the O-ring is compressed between the motor housing and the compressor housing when said housings are interconnected.
- 8. (Original) The fuel booster of claim 1, wherein the compressor housing includes an adapter plate connected to the motor housing.
- 9. (Original) The fuel booster of claim 1, wherein the compressor housing includes a discharge housing, the discharge housing receiving a flow of high-pressure fuel from the compressor rotor and discharging the high-pressure fuel flow to a combustor.
- 10. (Original) The fuel booster of claim 1, further comprising a variable frequency drive operable to drive the motor at a desired speed.
- 11. (Original) The fuel booster of claim 1, further comprising a cooling fan motor operable to drive a cooling fan independent of the motor to cool the motor.
 - 12-28 (Withdrawn).

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29. (New) A fuel booster operable to compress a combustible fuel, the fuel booster

comprising:

a compressor housing;

a compressor rotor;

a seal assembly coupled to the compressor housing, the seal assembly and the compressor

housing cooperating to at least partially define a hermetically sealed compressor chamber;

a motor housing coupled to the seal assembly, the motor housing and the seal assembly

cooperating to at least partially define a motor chamber that is sealed from the compressor

chamber to prevent fluid flow therebetween;

a motor including a motor rotor and a motor stator, the motor rotor and the compressor

rotor contained within the compressor chamber, the motor rotor including a cylindrical surface,

the motor stator substantially surrounding the cylindrical surface and contained within the motor

chamber; and

a cooling fan motor operable to drive a cooling fan independent of the motor to cool the

motor.

30. (New) The fuel booster of claim 29, wherein the compressor housing includes a

fuel inlet aperture and a fuel outlet aperture.

31. (New) The fuel booster of claim 29, wherein the compressor rotor is a first

compressor rotor, the fuel booster further comprising a second compressor rotor engaged with

the first compressor rotor, the first compressor rotor and the second compressor rotor contained

within the compressor chamber.

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- 32. (New) The fuel booster of claim 29, wherein the compressor rotor includes a drive portion that extends into the motor stator, and wherein the motor rotor includes an annular sleeve connected to the drive portion.
- 33. (New) The fuel booster of claim 29, wherein the seal assembly includes a canister sized to cover the motor rotor and contact the compressor housing.
- 34. (New) The fuel booster of claim 33, wherein the seal assembly includes an O-ring positioned between the canister and the compressor housing.
- 35. (New) The fuel booster of claim 34, wherein the O-ring is compressed between the motor housing and the compressor housing when said housings are interconnected.
- 36. (New) The fuel booster of claim 29, wherein the compressor housing includes an adapter plate connected to the motor housing.
- 37. (New) The fuel booster of claim 29, wherein the compressor housing includes a discharge housing, the discharge housing receiving a flow of high-pressure fuel from the compressor rotor and discharging the high-pressure fuel flow to a combustor.
- 38. (New) The fuel booster of claim 29, further comprising a variable frequency drive operable to drive the motor at a desired speed.